

**AGRICULTURAL RESOURCE
MANAGEMENT STUDY
CORN PRODUCTION
PRACTICES and COSTS REPORT
for 1996**

VERSION	STRATUM	ID/SEGMENT	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
02	____ ____	____ _	____ ____	____ _	0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMPLETE	
4 - SCREENOUT	0001
5 - NO TARGET	
COMMODITY	
8 - REFUSAL	
9 - INAC./INCOMPL.	
OPTIONAL	0002
OPTIONAL	0003

INTRODUCTION

[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on practices and costs to produce corn and need your help to make the information as accurate as possible. Authority for collection of information on the Corn Production Practices and Costs Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME [MILITARY]

☐ *[Name, address and partners verified and updated if necessary.]*

ENUMERATOR NOTE:

If box is code 1, complete the Screening Supplement.

If box is not coded, begin with Section C.]

0004	____ _
------	--------

SCREENING BOX

0005

PARTNERS:	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
LSF ID _____	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

**PARTNERS'
STRATUM
182**

0006	0007	0008	0009
____ _	____ _	____ _	____ _

C CORN FIELD SELECTION

C

1. How many acres of corn did this operation plant in 1996 with the intention of harvesting them for grain?

(**Exclude** seed corn.)

[If no acres planted, review information on Screening Report.
Make notes, then go to item 2 of Conclusion, back page.]

TOTAL PLANTED
ACRES OF CORN
FOR GRAIN

0045	_____
0046	_____
0047	_____
0048	_____
0049	_____

2. How many of the [item 1] corn acres were--

ACRES

- a. owned by this operation? _____
- b. rented for CASH? _____
- c. SHARE rented? _____
- d. used RENT-FREE? _____

0046	_____
0047	_____
0048	_____
0049	_____

[Total must equal
item 1.]

3. I will follow a simple procedure to make a random selection of a **single field** of corn planted with the **intention** of harvesting for grain.

What is the TOTAL number of corn fields that were planted **for grain** on your operation in 1996?

(**Exclude** seed corn.) [If only 1 field, go to item 5.]

NUMBER

0050

4. Please list these fields according to identifying numbers/names or describe each field. Then I will tell you which field has been selected.

(If there are more than 18 fields, list only the 18 fields closest to your permanent residence.)

[If respondent is unable to identify or describe the fields, use the Field Selection Supplement on page 3.]

FIELD NUMBER, NAME OR DESCRIPTION

1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
7	_____
8	_____
9	_____

FIELD NUMBER, NAME OR DESCRIPTION

10	_____
11	_____
12	_____
13	_____
14	_____
15	_____
16	_____
17	_____
18	_____

NOTES and CALCULATIONS:

D**FIELD CHARACTERISTICS---SELECTED FIELD****D**

1. How many acres of corn did this operation plant in the selected field in 1996?

ACRES

0055

2. Was this field--

- 1 OWNED BY THIS OPERATION?
2 RENTED FOR **CASH**?
3 **SHARE** RENTED?
4 USED **RENT-FREE**?

CODE

0056

- a. [If field is **CASH RENTED**, item 2 is 2, ask--]
What was the cash rent paid (per acre)?

TOTAL DOLLARS

OR

DOLLARS & CENTS
PER ACRE

0057

0058

- b. [If field is **SHARE RENTED**, item 2 is 3, ask--]
What was the landlord's share of the crop from this field?

PERCENT

0059

BUSHELS PER ACRE

0060

3. What average yield per acre do you normally EXPECT for grain from this field?

DOLLARS & CENTS
PER BUSHEL

0061

4. When you made your planting decisions for this field, what market price per bushel did you use in your planning (*budget*) for the 1996 corn crop?

MM DD YY

0062

__ __ __ 96

5. On what date was this field planted?

[Use **CALENDAR** showcard and circle planting date.]

INCHES

0063

7. What was the row width in inches?

UNIT CODE

1=KERNELS
2=POUNDS
3=BUSHELS

QUANTITY PER ACRE

0064

0065

8. What was the seeding rate per acre the first time this field was seeded?

9. Was one of these pest resistant varieties of seed used in this field--
[Show respondent Seed Variety Code List in Respondent Booklet.
Choose one and enter code.]

- 1 an herbicide resistant hybrid or variety
(such as Pioneer 3162R, Beck's 6868IRT)?
2 a Bt variety for insect resistance, (such as
Nature Guard or Maximizer with Knockout)?
3 a gray leaf spot resistant variety?
5 none of these?

CODE

0066

D**FIELD CHARACTERISTICS---SELECTED FIELD****D**

12. How many acres in this field had to be reseeded to corn?

ACRES

0067

13. What was the cost per unit of the **purchased** seed for this field?
(**Include** landlord's cost.)DOLLARS AND CENTS
PER UNIT

0068

UNIT CODE
1=APPROX. 80,000
KERNEL BAG
2=POUNDS
4=BUSHEL

0069

a. [Ask only if this field was *RENTED*, item 2 was 2 or 3.]
What was the landlord's cost for seed
planted on this field?

PERCENT

0070

OR

TOTAL DOLLARS

0071

CODE

0072

14. Has harvest of this field been completed? YES = 1

15. Now I need information about the acres harvested (or to be harvested)
and the yields from this corn field.

1	2 How many acres in the corn field were (will be) harvested for-- [column 1] ACRES	3 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	4 UNIT CODE 2=BUSHEL 4=TONS
a. grain?	0074 · ____	0082 · ____	0090
b. silage (green chop)?	0075 · ____	0083 · ____	TONS
i. abandoned?	0098 · ____		
j. other use?	0099 · ____		

D**FIELD CHARACTERISTICS---SELECTED FIELD****D**

PARTIAL CROP CODE LIST FOR ITEM 17			
1 Alfalfa hay	8 Cotton	22 Rye	30 Sunflowers
190 Barley	302 CRP	25 Sorghum for grain	163 Wheat, durum
3 Dry Beans	311 Grasses other than clover	24 Sorghum for silage	164 Wheat, other spring
6 Corn for grain	11 Hay, all other	26 Soybeans	165 Wheat, winter
5 Corn for silage	15 Oats	28 Sugarbeets	318 Fallow or Idle (diverted)

17. Next I need to know what crops were previously planted on this field, **including cover crops**.
[If no crop was planted during the period, use code 318. If crop isn't listed in the code table, record the crop name beside the cell and leave the cell blank.]

1	2 What crop was planted on this field-- [column 1] CODE	3 Was this crop irrigated on this field? YES=1
a. in FALL of 1995?	0103	0108
b. in SPRING/SUMMER of 1995?	0104	0109
c. in FALL of 1994?	0105	0110
d. in SPRING/SUMMER of 1994?	0106	0111
e. in SPRING/SUMMER of 1993?	0107	0112

18. *[If the most recent crop in item 17 was a SMALL GRAIN, such as barley, oats or wheat ask--]*

Was crop residue removed from this field
by baling or removing straw, burning, etc.?

YES = 1

CODE

0114

19. Was a no-till system used to prepare and plant this corn field?

☐ **YES** - [Enter code 1 and continue.]

☐ **NO** - [Go to item 20.]

0115

- a. How many consecutive years has no-till been used on this field
(regardless of which crop was planted or grown)?
[Enter 1 if current year only.]

YEARS

0116

D**FIELD CHARACTERISTICS---SELECTED FIELD****D**

20. Did your land-use practices for this field include--

CODE

- a. grassed waterways? YES = 1
- b. terraces? YES = 1
- c. contour farming? YES = 1
- d. strip cropping? YES = 1
- e. underground outlets such as tile drainage? YES = 1
- f. other drainage channels or diversions? YES = 1

0117
0118
0119
0120
0121
0122

21. Has the Natural Resources Conservation Service
or NRCS (*formerly called the Soil Conservation Service or SCS*)
classified this field as "Highly Erodible"? YES = 1

0123

22. Has the NRCS (*former SCS*) notified you
that this field contains a wetland? YES = 1

0124

23. Was this field covered by crop insurance for the 1996 corn crop? YES = 1

0125

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD E

1. What FERTILIZERS were applied to this field for the 1996 corn crop? [If none, go to item 3.]
(Include chemical fertilizers. Include custom applied fertilizers. Include fertilizer applied in the fall of 1995 and those applied earlier if this field was fallow. Exclude micro-nutrients.)

EDIT TABLE

0201

T-TYPE
2
TABLE
001

LINE	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 POUNDS 12 GALLONS 19 POUNDS of ACTUAL NUTRIENTS	5 When was this applied? [Show respondent CALENDAR showcard.] MM DD YY	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In Seed furrow 5 In irrigation water 6 Chisel, Injected or Knifed in 7 Banded in or Over Row 8 Foliar or Directed Spray 9 Spot treatments	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash					
01	0205	0206	0207	0208	0209	0210 _ _ _ _ _	0211	0212 . _____
02	0205	0206	0207	0208	0209	0210 _ _ _ _ _	0211	0212 . _____
03	0205	0206	0207	0208	0209	0210 _ _ _ _ _	0211	0212 . _____
04	0205	0206	0207	0208	0209	0210 _ _ _ _ _	0211	0212 . _____
05	0205	0206	0207	0208	0209	0210 _ _ _ _ _	0211	0212 . _____

99	OFFICE USE NUMBER OF LINES IN TABLE							0213
----	--	--	--	--	--	--	--	------

T-TYPE	TABLE	LINE
0	000	00

2. [Ask only if Nitrogen was applied to this field.]

CODE

0165

Did you use any product to slow the breakdown of Nitrogen? YES = 1

3. Was a soil test or plant tissue test performed on this field in 1995 or 1996 for the 1996 corn crop?

☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 5.]

0166

DOLLARS PER ACRE

- a. How much was spent for these soil tests or plant tissue tests on this field?
[Include landlord's costs.]

0167

- b. [If this field was RENTED, ask--]
 How much did your LANDLORD spend for these tests on this field?

PERCENT

OR

TOTAL DOLLARS

0168

0169

4. Was a Nitrogen test performed?

CODE

0170

☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 5.]

- a. Was the amount of Nitrogen applied to this field more than, less than, or exactly the amount recommended by the Nitrogen test?

1 MORE THAN THE AMOUNT RECOMMENDED
 2 LESS THAN THE AMOUNT RECOMMENDED
 3 EXACTLY THE AMOUNT RECOMMENDED

0171

5. Is lime ever applied to this field?

CODE

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD E

- ☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 8.]

0172

YEARS

- a. On average, how many years are there between applications of lime to this field?

0173

TONS PER ACRE

- b. How many tons of lime were applied per acre the last time it was applied to this field?

0174

. ____

- c. [Ask only if field was CASH or SHARE RENTED.]
What percent of the total cost of lime and its application was paid by the landlord?

PERCENT

0175

8. Was manure applied to this field for the 1996 corn crop?
(Exclude commercially prepared manure.)

- ☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 9.]

CODE

0176

ACRES

- a. How many acres was manure applied to?

0177

. ____

TOTAL TONS

OR

TOTAL GALLONS

- b. What was the total amount of manure applied to this field?

0178

. ____

0179

- c. Was the manure--

- | | |
|---|---|
| 1 | Dry Broadcast without Incorporation? |
| 2 | Dry Broadcast with Incorporation? |
| 3 | Liquid Broadcast without Incorporation? |
| 4 | Liquid Broadcast with Incorporation? |
| 5 | Injected/Knifed In? |

CODE

0180

- e. Was the major source of the manure from--

- | | |
|---|---------------|
| 1 | BEEF CATTLE? |
| 2 | DAIRY CATTLE? |
| 3 | HOGS? |
| 4 | SHEEP? |
| 5 | POULTRY? |
| 6 | OTHER? |

0184

- f. Was the manure--

- | | |
|---|-----------------------------|
| 1 | PRODUCED ON THIS OPERATION? |
| 2 | PURCHASED? |
| 3 | OBTAINED AT NO COST? |

0185

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD E

9. Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 1996 corn crop?

(Include landlord costs. Exclude custom application of lime.)

[If material and application costs can't be separated,

exclude them here and record the total in item 10.]

**DOLLARS & CENTS
PER ACRE**

0186	• ____
------	--------

OR TOTAL DOLLARS

0187

10. What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 1996 corn crop?

(Include landlord costs. Exclude lime or purchased manure.

If custom applied, include the cost of materials ONLY,

unless materials and application costs cannot be separated.

Include materials applied to this field if it was fallow in 1995.) . .

**DOLLARS & CENTS
PER ACRE**

0188	• ____
------	--------

OR TOTAL DOLLARS

0189

[If this field was RENTED, continue; otherwise go to Section F.]

11. What was the TOTAL LANDLORD COST for CUSTOM FERTILIZER APPLICATIONS on this field for the 1996 corn crop? **(Exclude material costs.)**

PERCENT

0190

OR TOTAL DOLLARS

0191

12. What was the TOTAL MATERIALS cost paid by the LANDLORD for fertilizers, soil conditioners and micronutrients applied to this field for the 1996 corn crop?

(Exclude application costs.)

PERCENT

0192

OR TOTAL DOLLARS

0193

F**PESTICIDE APPLICATIONS---SELECTED FIELD****F**

EDIT TABLE

0301

1. Were any herbicides, insecticides, fungicides or other chemicals used on this field for the 1996 corn crop?
(Include applications made in the fall of 1995 and those made earlier if this field was fallow. Include custom applied materials. Exclude seed treatments.)

T-TYPE
3
TABLE
001
☐ **YES** - [Continue.]

☐ **NO** - [Go to Section G, page 14.]

NOTES	LINE	2	3	4	5	6 OR 7		8
		What products were applied to this field? [Use product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D.]	Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	When was this applied? [Show respondent CALENDAR showcard.] MM DD YY	How much was applied per acre per application?	What was the total amount applied per application in this field?	[Enter unit code.] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
	01	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	02	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	03	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	04	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	05	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	06	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	07	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	08	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
	09	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310
99	OFFICE USE NUMBER OF LINES IN TABLE							0319

[For pesticides not listed in Respondent Booklet, specify--]

LINE	Pesticide Type (Herbicide, Insecticide Fungicide, etc.)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask only if EPA No. cannot be reported.]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

G

PEST MANAGEMENT PRACTICES--SELECTED FIELD

G

APPLICATION CODES for column 9

- | | |
|---|-------------------|
| 1 Broadcast, ground without incorporation | 7 Banded in or |
| 2 Broadcast, ground with incorporation | Over Row |
| 3 Broadcast, by air | 8 Foliar or |
| 4 In Seed Furrow | Directed spray |
| 5 In Irrigation water | 9 Spot treatments |
| 6 Chisel/Injected or Knifed in | |



[ENUMERATOR NOTE:
Use these columns only if
TOTAL COST (item ④ below)
cannot be provided.]



LINE	9 How was this product applied?	10 How many acres in this field were treated with this product? ACRES	11 Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee/Other?	12 What was the PRIMARY target pest for this application? [Use Pest codes from Respondent Booklet.]
01	0311	0312 . ____	0313	0314
02	0311	0312 . ____	0313	0314
03	0311	0312 . ____	0313	0314
04	0311	0312 . ____	0313	0314
05	0311	0312 . ____	0313	0314
06	0311	0312 . ____	0313	0314
07	0311	0312 . ____	0313	0314
08	0311	0312 . ____	0313	0314
09	0311	0312 . ____	0313	0314

OPTIONAL ITEM ④

What was the cost
per unit of the product?

DOLLARS & CENTS PER UNIT	UNIT CODE			
	1 12 13	POUNDS GALLONS QUARTS	14 15 30	PINTS OUNCES GRAMS
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			
0315 . ____	0316			

T-TYPE 0	TABLE 000	LINE 00
-------------	--------------	------------

3. [If no CUSTOM pesticide applications, go to item 4.]
How much was spent for CUSTOM APPLICATION of chemicals
and pesticides on this field, excluding the cost of chemicals?
(Include landlord cost.) [If material and application costs can't be
separated, exclude them here and record the total in item 4.]

DOLLAR & CENTS
PER ACRE

0215 . ____

OR TOTAL DOLLARS

0216

- ④ What was the TOTAL cost of all herbicides, insecticides,
fungicides and other chemicals applied to this field?
(Include landlord cost. Include surfactants and wetting agents.
Include materials applied to this field before planting and during 1995
fallow period. Exclude seed treatments.) [If custom applied, include
the costs of materials ONLY, unless material and application costs can't
be separated.]

DOLLAR & CENTS
PER ACRE

0217 . ____

OR TOTAL DOLLARS

0218

[If this field was RENTED, continue; otherwise go to Section G.]

5. What was the LANDLORD's share of the total CUSTOM
APPLICATION cost of pesticides applied to this field?
(Exclude material costs.)

PERCENT

0219

OR TOTAL DOLLARS

0220

6. What was the LANDLORD's share of the total cost for
CHEMICALS AND PESTICIDES applied to this field?
(Exclude application costs.)

PERCENT

0221

OR TOTAL DOLLARS

0222

1. Now I have some questions about your pest management decisions and practices used on this

G**PEST MANAGEMENT PRACTICES--SELECTED FIELD****G**

field for the 1996 corn crop. **By pests, we mean WEEDS, INSECTS and DISEASES.**

2. Let's begin with questions about scouting this field for pests.

1	2 Was the corn field scouted for-- [column 1] YES=1	3 [For rows with YES =1, ask--] Was most of the scouting for [column 1] done by-- 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Crop consultant or Commercial scout? CODE
a. weeds	0226	0229
b. insects	0227	0230
c. diseases	0228	

3. [Ask only if column 3 of item 2 is code 4; else go to item 4.]

How much did you pay for the scouting services for this field? [**Include** landlord cost.]

DOLLARS AND CENTS
PER ACRE

0231
· _ _ _

OR TOTAL DOLLARS

0232

PERCENT

0233

- a. What percentage of this cost was for insect scouting?

- b. [If this field was RENTED, ask--]

How much did your LANDLORD pay for scouting services on this field?

PERCENT

0234

OR TOTAL DOLLARS

0235

4. [Ask only if column 3 of item 2 is code 1 or 2; else go to item 5.]

How many hours did [operator, partner, family member, employee] spend scouting this field for pests?

HOURS

0236

5. [Ask only if field was SCOUTED (column 2 of item 2 is code 1); else go to item 6.]

Were written or electronic records kept for this field to track the **activity or numbers** of--

CODE

- a. broadleaf weeds? YES = 1

0237

- b. grass weeds? YES = 1

0238

- d. black cutworms? YES = 1

0239

- e. corn rootworms? YES = 1

0240

- f. European corn borers? YES = 1

0241

- g. spider mites? YES = 1

0242

6. [Ask only if HERBICIDES (pesticide codes 4000 - 4999) were entered in Section F, item 1 column 2; else go to item 11.]

Did you apply herbicides to this field BEFORE weeds emerged?

CODE

G**PEST MANAGEMENT PRACTICES--SELECTED FIELD****G**

<input type="checkbox"/> YES - [Enter code 1 and continue.] <input type="checkbox"/> NO - [Go to item 8.]		0243
7. Did you decide to use pre-emergence herbicides based on--		
a. a routine treatment for weed problems experienced in previous years?	YES = 1	0244
b. field mapping of previous weed problems?	YES = 1	0245
c. a computerized decision model?	YES = 1	0246
d. recommendations from an independent crop consultant?	YES = 1	0247
8. Did you apply herbicides to this field AFTER weeds emerged?		
<input type="checkbox"/> YES - [Enter code 1 and continue.] <input type="checkbox"/> NO - [Go to item 10.]		0248
9. Did you decide to use post-emergence herbicides based on--		
a. a routine treatment?	YES = 1	0249
b. type and/or density of weed(s) present?	YES = 1	0250
c. a computerized decision model?	YES = 1	0251
d. recommendations from an independent crop consultant?	YES = 1	0252
10. Were any weeds on this field resistant to--		
a. Atrazine, Aatrex, Bladex, Extrazine, Princep, Simazine or other TRIAZINE family herbicides?	YES = 1	0253
b. Account, Beacon, Classic, Pinnacle, Pursuit, Septer or other ALS family herbicides?	YES = 1	0254
11. Do you routinely use a soil insecticide at planting time to control corn rootworm on this field?		
<input type="checkbox"/> YES - [Enter code 1 and go to item 14.] <input type="checkbox"/> NO - [Continue.]		0255
a. Did you scout this field for adult corn rootworm beetles during the 1995 growing season to determine the need for a soil insecticide at planting?		
<input type="checkbox"/> YES - [Enter code 1 and go to item 14.] <input type="checkbox"/> NO - [Continue.]		0256
b. Did you scout for adult corn rootworm beetles during the 1996 growing season to determine the need for a soil insecticide?		
<input type="checkbox"/> YES - [Enter code 1 and continue.] <input type="checkbox"/> NO - [Continue.]		0257

G

PEST MANAGEMENT PRACTICES--SELECTED FIELD

G

14.

1	2 →	3 [If YES = 1 in column 2, ask--] Was your main reason for doing this to control-- 1 WEEDS 2 INSECTS 3 BOTH
Did you--	YES=1	CODE
a. control pests on this field by adjusting row spacing or plant density?	0262	0268
b. reduce (or control) pests by adjusting planting dates on this field?	0263	0269
c. control pest resistance by alternating pesticides on this field from year to year? (Use pesticides from different families.)	0264	0270
d. keep pests from spreading into this field by using practices such as tilling, mowing, burning, and/or chopping of field edges, lanes or roadways?	0265	0271
e. control pests on this field by using water management practices, such as controlled drainage or irrigation scheduling? [Exclude chemigation.]	0266	0272
f. reduce the spread of pests to or from this field by cleaning the harvesting and tillage implements?	0267	0273

16. Did you--

	CODE
a. have a biological soil analysis done on this field to detect the presence of soil pests, such as insects, diseases or nematodes? YES = 1	0274
b. consider beneficial insects in selecting and using pesticides on this field? YES = 1	0275
c. remove weeds in infested areas in this field to prevent insect egg laying? YES = 1	0276
d. use seed treatments for seedling blight control? YES = 1	0277
e. submit diseased plants from this field to a lab for diagnosis? YES = 1	0278

17. Did you--

a. purchase and release beneficial insects in this field? YES = 1	0279
b. use pheromone lures in this field to monitor for black cutworm? [Include traps and bait sticks.] YES = 1	0280
c. set and monitor pre-plant grain traps for wireworms? YES = 1	0281

18. [If any of items 17 a - c are code YES=1, continue; else go to item 19.]

What were the TOTAL materials and application costs for all biological pest controls, including pheromones, pheromone traps, beneficial insects, and floral lures, attractants or repellants applied on this field? (Exclude Bt corn seed.)

DOLLARS & CENTS
PER ACRE

0282

OR TOTAL DOLLARS

0283

G**PEST MANAGEMENT PRACTICES--SELECTED FIELD****G**

19. What was your primary outside source of information on pest management recommendations for the 1996 corn crop?
[Ask the respondent to look at Pest Management Information Sources Code List in Respondent Booklet. Choose one and enter code.]

**PEST MANAGEMENT INFORMATION SOURCES
CODE LIST**

- ☐ **1 Extension Advisor, Publications or Demonstrations**
(County, Cooperative or University)

☐ **2 Farm Supply or Chemical Dealer**

☐ **3 Commercial Scouting Service**

☐ **4 Crop Consultant or Pest Control Advisor**

☐ **5 Other Growers or Producers**

☐ **6 Producer Associations, Newsletters or Trade Magazines**

☐ **7 Television or Radio Programs, Newspapers**

☐ **8 Electronic Information Services** (*World Wide Web, DTN, etc.*)

☐ **9 Other**

☐ **10 None**

CODE

0284

20. Have you (the operator) attended a training session on pest identification and management since October 1, 1995? YES = 1

0285

21. Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides? YES = 1

0286

OFFICE USE

0015

H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

1. Now I need to list all tractors used to produce corn on **this selected field**.
(Include all tractors owned, rented, leased or borrowed and those used to haul corn out of the field to the point of first sale or storage.
Exclude tractors provided by custom operators.)

1	2 What tractors were used on THIS FIELD? MAKE and MODEL	3 What was the model year? [Enter last 2 digits.]	4 Is this tractor-- 2-wheel drive? 2-wheel drive with front wheel assist? 4-wheel drive? crawler? other?	5 What is its PTO horsepower? PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline 3 ? 9 LP gas other?
1		0320	0326	0332	0338
2		0321	0327	0333	0339
3		0322	0328	0334	0340
4		0323	0329	0335	0341
5		0324	0330	0336	0342
6		0325	0331	0337	0343

H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

3. Next, I need to list field work performed by machines on this field for the 1996 corn crop. Let's begin with the first activity after harvest of the preceding crop and continue through hauling the crop out of the field. **Include** fertilizer and pesticide applications and ALL custom operations. **Please list the operations in the order they occurred AND maintain the order of tandem hook-ups.**

(If this field was fallow (idle, diverted) during 1995, list operations starting with the fall of 1994. **Include** plowing, corrugation, land preparation, planting, applying fertilizers and pesticides, preparing for irrigation, harvesting and hauling the corn from the field using carts, trailers, or wagons. **Exclude** the application of lime.)

CODES FOR COLUMN 5	
1	You (The Operator)?
2	Partner?
3	Unpaid Worker?
4	Paid Part-time or Seasonal Worker?
5	Paid Full-time Worker?
6	Custom Applicator? --[Go to Column 13.]

INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS

INCLUDE CUSTOM OPERATIONS

[If column 5 is code 6 (CUSTOM), skip columns 7-11.]

2 SEQUENCE No.	3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	5 Who was the machine operator-- [Enter code from above. If code = 6 (CUSTOM), go to column 13.]	7 What was the size or swath of the [machine] used?	8 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) HAULING 4 POUNDS 5 BUSHELS 6 TONS	9 Which tractor was used? [Record line number from item 1.] 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled	10 How many acres were covered? 1/	11 What were the acres covered per hour?	13 In what month was this operation done?
			CODE				ACRES	ACRES PER HOUR	MM
0369		0394	0424	0471	0501	0531	0561 .	0586 .	0641
0370		0395	0425	0472	0502	0532	0562 .	0587 .	0642
0371		0396	0426	0473	0503	0533	0563 .	0588 .	0643
0372		0397	0427	0474	0504	0534	0564 .	0589 .	0644
0373		0398	0428	0475	0505	0535	0565 .	0590 .	0645
0374		0399	0429	0476	0506	0536	0566 .	0591 .	0646
0375		0400	0430	0477	0507	0537	0567 .	0592 .	0647
0376		0401	0431	0478	0508	0538	0568 .	0593 .	0648
0377		0402	0432	0479	0509	0539	0569 .	0594 .	0649
0378		0403	0433	0480	0510	0540	0570 .	0595 .	0650
0379		0404	0434	0481	0511	0541	0571 .	0596 .	0651
0380		0405	0435	0482	0512	0542	0572 .	0597 .	0652
0381		0406	0436	0483	0513	0543	0573 .	0598 .	0653
0382		0407	0437	0484	0514	0544	0574 .	0599 .	0654
0383		0408	0438	0485	0515	0545	0575 .	0600 .	0655
0384		0409	0439	0486	0516	0546	0576 .	0601 .	0656
0385		0410	0440	0487	0517	0547	0577 .	0602 .	0657

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, **AND** for hauling operations, enter total HOURS, not acres.
Then leave column 11 blank.

OFFICE USE

0017

LABOR

5. I need to get some additional information about labor used on this field. I would like to list ALL workers, both paid and unpaid, that worked on this field to produce the 1996 corn crop,

H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

including you (the operator) and any partners.

(List individuals or groups of workers. If workers are grouped, indicate type and number.

Exclude contract and custom labor.)

[Enumerator Instructions: First, list the workers in column 1. Probe to include workers who worked on the field during the fall of 1995 and earlier if the field was left fallow during 1995. When all workers are listed in column 1, complete the table.]

[Ask only if (worker in column 1)
is PAID,
column 3=code1.]

1 WORKERS	2 [Enter number of workers.]	3 Was (worker)-- 1 PAID 2 UNPAID [--Go to column 6.]	4 Was (worker)-- 1 FULL TIME 2 PART TIME 3 SEASONAL	5 What was the average cash wage rate paid per hour for ALL of (worker's) work on this field? DOLLARS & CENTS PER HOUR	6 What was the TOTAL number of hours (worker) worked on activities for this field, OTHER THAN THE HOURS JUST REPORTED OPERATING MACHINES? (Include time spent loading materials into equipment, scouting, irrigating, hauling with trucks, drying and management activities.) TOTAL HOURS
<input type="checkbox"/> You (the operator)					0683
<input type="checkbox"/> Partners	0684				0685
<input type="checkbox"/> Spouse		0686	0687	0688 • ____	0689
	0690	0703	0716	0729 • ____	0742
	0691	0704	0717	0730 • ____	0743
	0692	0705	0718	0731 • ____	0744
	0693	0706	0719	0732 • ____	0745
	0694	0707	0720	0733 • ____	0746
	0695	0708	0721	0734 • ____	0747
	0696	0709	0722	0735 • ____	0748
	0697	0710	0723	0736 • ____	0749
	0698	0711	0724	0737 • ____	0750
	0699	0712	0725	0738 • ____	0751
	0700	0713	0726	0739 • ____	0752
	0701	0714	0727	0740 • ____	0753
	0702	0715	0728	0741 • ____	0754

6. [Ask only if UNPAID labor was reported in column 3 of item 5.]

What percentage of the total hours worked on this field by
UNPAID workers were worked by children under 16 years old?

PERCENT

0755

H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

7. Now I need some information on how much was spent for custom and technical services used on this field for the 1996 corn crop.

1 CUSTOM or TECHNICAL SERVICE <i>[Check CUSTOM operations reported in item 3. Complete columns 2 and 3 for all items checked.]</i>	2 <i>(Including landlord's cost)</i> How much was spent for <i>[custom or technical service in column 1] on this field for the 1996 corn crop?</i> DOLLARS & CENTS PER	3 How much did your LANDLORD spend for this service on this corn field? PERCENT OR TOTAL	
<input type="checkbox"/> b. custom land preparation, shaping and/or leveling?	0757 . ____	0765	0773
<input type="checkbox"/> c. custom cultivating?	0758 . ____	0766	0774
<input type="checkbox"/> d. custom planting and/or reseeding?	0759 . ____	0767	0775
<input type="checkbox"/> f. custom harvesting and hauling of crop from field to storage or point of first market?	0761 . ____	0769	0777
<input checked="" type="checkbox"/> h. other custom and/or technical services? <i>(specify _____)</i> <i>(Exclude custom fertilizer and chemical applications and custom crop drying.)</i>	0763 . ____	0771	0779

IRRIGATION---SELECTED FIELD

ACRES

1. How many acres in this field were irrigated for the 1996 corn crop?

[If none, go to Section J, page 25.]

0785

. ____

2. Now, I have some questions about irrigation systems and water used on this field for the 1996 corn crop.

↓		UNIT	SYSTEM 1	SYSTEM 2	
a.	What type(s) of irrigation system(s) were used to irrigate this field? [Ask Respondent to look at System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	0786	0798	
b.	What was the total number of inches of water applied per acre to this field during the entire growing season? [Include ALL water used from both on-farm and off-farm sources.]	INCHES PER ACRE	0787	0799	
c.	[If operator cannot provide item b, ask--] What is the total number of hours this system was used to apply water to this field during the corn growing season?	TOTAL HOURS	0788	0800	
e.	What percentage of the water used to irrigate this field through this system came from surface water sources?	PERCENT	0789	0801	
f.	What was the number of times this field was irrigated during the corn growing season using this system? [Include any pre-plant irrigation.]	NUMBER OF IRRIGATIONS	0790	0802	
g.	Was the pump type-- [Enter code for most common pump type.] (If more than one pump in the system, enter type for pump closest to water source.)	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP-? [Go to item m.]	CODE	0791	0803
h.	What was the average pumping rate?	GALLONS PER MINUTE	0792	0804	
i.	[If item 2a is code 1-9 (PRESSURE SYSTEM), ask--] What was the system operating pressure?	POUNDS PER SQUARE INCH	0793	0805	
j.	What was the motor type? 1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	CODE	0794	0806	
k.	What was the average motor size?	HORSE-POWER	0795	0807	
m.	[Ask only if NO PUMP was used (item g is code 99); else go to item n.] What was the average flow rate?	GALLONS PER MINUTE	0796	0808	
n.	How many other crop acres on this operation were irrigated using this field's irrigation system during the 1996 growing season? [Exclude this field.]	ACRES	0797	0809	

IRRIGATION---SELECTED FIELD

3. Was any water purchased to irrigate this field?
(**Include** landlord's share. **Include** purchases from all sources.)

☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 4.]

CODE

0817

PERCENT

0818

DOLLARS

0819

- a. What percentage of the water used on this field was purchased?
- b. What was the total cost for the water purchased for this field during the 1996 growing season?
[**Include** landlord's cost.]

4. [If SIPHON TUBES were used (line a of item 2 is 10 or 11), ask--]
What would be the total cost to replace all the siphon tubes used on this field?

0820

5. [If POLY PIPE system was used (line a of item 2 is 14), ask--]
What was the total amount spent for poly pipe used on this field during the 1996 growing season?

0821

INCHES

0822

6. [If GATED PIPE system was used (line a of item 2 is 15 or 16), ask--]
a. What was the average diameter of gated pipe used to irrigate this field?

FEET

0823

- b. What was the total length of gated pipe used?

7. Were wells used to supply irrigation water for this field?

☐ **YES** - [Enter code 1 and continue.] ☐ **NO** - [Go to item 8.]

CODE

0824

NUMBER

0825

- a. How many wells were used to irrigate this field?

INCHES

0826

- b. What was the average diameter of the outer well casing?

- c. What was the average pumping depth of these wells during the irrigation season?
[Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]

FEET

0827

IRRIGATION---SELECTED FIELD

8. Other than pipe that is part of the system, was any additional mainline or lateral pipe used to carry water from the source to this field? (*Include underground pipe.*)

☐ **YES** - [Continue.] ☐ **NO** - [Go to item 9.]

- a. What was the most common type of additional pipe used?

PIPE TYPE CODES
 1 ALUMINUM - (NON-HI-PRESSURE)
 2 ALUMINUM - (HI-PRESSURE)
 3 ASBESTOS CONCRETE
 4 STEEL
 5 PLASTIC
 6 OTHER
 (SPECIFY: _____)

CODE

0828

- b. What was the average diameter (*in inches*) of the most common type of this additional pipe used?

INCHES

0829

- c. How many feet of this additional pipe were used to carry water to this field?

FEET

0830

9. [If this field was *RENTED*, continue; else go to item 10.]

What was the LANDLORD's share of the total cost for--

- a. fuel, lubrication and electricity used to irrigate this field?
 b. repairs for irrigation equipment used to irrigate this field?
 c. purchased irrigation water used to irrigate this field?

PERCENT

OR

TOTAL DOLLARS

0831

0832

0833

0834

0835

0836

10. Is the run off from this field--

RUN-OFF CODES
 1 retained at the end of the field?
 2 re-used to irrigate on the farm?
 3 collected in evaporation ponds on the farm?
 4 drained from the farm?
 5 or is there no run off?

CODE

0837

J**DRYING****J****PERCENT**

1. What was (do you expect to be) the moisture content of the corn from this field at harvest?

0840

. _____

2. Now I have some questions about drying corn from this field.

1	2 Was most of [column 1]'s (share of) corn from this field-- 1 DRIED USING OPERATION'S FACILITIES 2 DRIED USING LANDLORD'S FACILITIES 3 CUSTOM DRIED (Include drying on another operation.) 4 NOT DRIED	3 [If CUSTOM DRIED (column 2 is code 3), ask--] How much did [column 1] pay for custom drying? OR	
		CENTS PER BUSHEL	TOTAL DOLLARS
a. this operation (Exclude landlord's share.)	0841	0843	0845
b. [Ask only if field was share rented.] the landlord	0842	0844	0846

3. **[ENUMERATOR INSTRUCTION:** If ANY corn was DRIED using operator's or landlord's facilities (column 2 is code 1 or 2) → continue; else, go to Section K, page 27.]

4. [If the selected field was SHARE RENTED, continue; else go to item 5.]

How much did your LANDLORD contribute for--

- a. fuel and/or electricity used for drying corn from the selected field?

PERCENT**OR****TOTAL DOLLARS**

0847

0848

- b. repairs of the facilities used for drying corn from the selected field?

0849

0850

J

DRYING

J

5. Now, I need a description of the facilities and methods used for drying the corn from the selected field.
(**Include** only those facilities used to remove moisture from corn by drying or cooling.)

1	2	3	4	5	6
	1 BINS 2 CONTINUOUS FLOW DRYERS 3 BATCH DRYERS CODE	Was the main drying method-- 1 HIGH TEMP 2 LOW TEMP	How many of this type of facility were used to dry corn from the ENTIRE 1996 crop? NUMBER	What was the TOTAL holding capacity of these dryers? BUSHEL	What was the main power source used? 1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 9 OTHER CODE
→					
a. What was the main type of on-farm drying facility that used heat to dry the corn from this field? (If more than one type was used, report the type used to dry the most corn.)	0851	0852	0853	0854	0855
b. What was the main type of on-farm cooling or aeration facility used to dry the corn from this field? (If more than one type was used, report the type used to dry the most corn).	0856		0857	0858	

6. [Ask, if BIN drying was used (column 2 of item 5 is code 1), else go to item 7.]

How many of the bins were equipped with grain stirrators or recirculators?

NUMBER

0859

7. Of the total bushels of **all** crops dried with all of these facilities, what percentage were bushels of corn?

PERCENT

0860

K

VEHICLES and TRUCKS--ENTERPRISE

K

1. Now I'm done with questions about this field.

My last questions are about **all** vehicles and trucks that were used on the **entire** 1996 crop of corn planted **for grain** (no matter which field it was grown in). (**Exclude** seed corn.) (**Include** all vehicles owned, rented, leased or borrowed, and those used to haul corn out of the field to the point of first sale or storage. **Exclude** vehicles provided by custom operators.)

1 VEHICLES	2 How many [vehicles] were there? NUMBER	3 What was the total mileage driven by these [vehicles] for all farm uses during the past 12 months? MILES	4 What percent of these miles were for the corn crop? PERCENT
Pick-ups, Cars & Sport Utility Vehicles	0861	0863	0865
ATVs and Motorcycles	0862	0864	0866

1 What other trucks were used for the 1996 corn crop? (Exclude pick-ups) MAKE	2 Is this truck- diesel? gasoline? LP gas? other? CODE	3 Is it-- single axle? tandem axle? semi? CODE	4 How many total miles was this truck driven for all farm uses during the past 12 months? MILES	5 What percentage of these farm-use miles were for the entire corn crop? PERCENT
	0867	0873	0879	0885
	0868	0874	0880	0886
	0869	0875	0881	0887
	0870	0876	0882	0888
	0871	0877	0883	0889
	0872	0878	0884	0890

CONCLUSION

LOCATION OF SELECTED FIELDS

1. I need to locate the selected field of corn on this map.

What county is the selected corn field in? _____

OFFICE USE--
COUNTY FIPS CODE

0021

[ENUMERATOR ACTION: *Mark the map to indicate where the selected corn field is located. Be sure the "X" you mark on the map is in this county.]*

2. Reporting the operator's Social Security and Federal Employer Identification number is voluntary. The authority to request them is Title 7, Section 2204 of the U.S. Code. These numbers will be used only within the National Agricultural Statistics Service for identification.

0022	OPERATOR'S SSN
<div style="border-bottom: 1px solid black; width: 100%;"></div>	

0023	OPERATION EIN
<div style="border-bottom: 1px solid black; width: 100%;"></div>	

3. There's other information we need in order to complete the profile of your operation. Because we'll be asking about year-end information, we will contact you in February or March, 1997, when your records are complete. I'll call you then to set up a time that's good for you.

[Offer survey results or other Agency publications. Thank the respondent, then review this questionnaire.]

RESPONDENT

- | | |
|---|--------------------------|
| 1 | OPERATOR/MANAGER/PARTNER |
| 2 | SPOUSE |
| 3 | ACCOUNTANT/BOOKKEEPER |
| 4 | OTHER |

CODE

0025

Respondent's name

[if code 3 or 4] _____

Phone () _____

RECORDS USE

Did the respondent use farm/ranch records to report **fertilizer** data? YES = 1

Did the respondent use farm/ranch records to report **chemical** data? YES = 1

Did respondent use farm/ranch records to report the majority of **expense** data? YES = 1

0027
0028
0029

SUPPLEMENTS USED

Record the total number of each type of supplement used to complete this interview.

FERTILIZER APPLICATIONS

CHEMICAL APPLICATIONS

FIELD OPERATIONS

TRUCKS and TRACTORS

NUMBER
0033
0034
0035
0036

ENDING TIME [MILITARY] _____

DATE: _____

ENUMERATOR _____

0037

MM DD YY

0038

ENUMERATOR ID

0039

EVALUATION

0040